



TRIBUTARIES®

Bringing it all **together**

HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

EXTENDER

OVER CAT6



HXC6

Extends HDMI 140 feet

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1. Introduction

The Tributaries HXC6 HDMI Extender over CAT6 is a fully digital product. Many similar type units are actually analog; they convert the digital HDMI signal to analog in the transmitter unit, send it to the receiver unit via CAT5E cable where it is converted back to a digital signal. Not only is this an expensive design but it also sacrifices performance by the repeated digital-to-analog and analog-to-digital conversions.

Consisting of 2 units, a transmitter and a receiver, the Tributaries HXC6 can extend an HDMI signal over CAT6 cables for a distance of up to 45 meters. The installation of the Tributaries HXC6 is easy and quick. Simply place the transmitter next to your HDTV source, such as a DVD player, and then place the receiver close to your display. Complete the installation using Tributaries HDMI Cables and 2 runs of CAT6.



To double the maximum distance, add the Tributaries HXC6R Repeater (Optional). This passive device can be inserted at the end of the appropriate length of CAT6 cable run from the Tributaries HXC6 Transmitter unit. A similar length of CAT6 can then be run to the Tributaries HXC6 Receiver unit. The HXC6R supports all the features of the HXC6.

It is possible to substitute CAT5E cable for CAT6. However, the maximum resolution capability will be limited to 1080p/8bit color, HDMI v1.2.

All units are HDMI v1.3 certified supporting 12 bit Deep Color and new lossless compressed Digital audio; Dolby TrueHD®, Dolby Digital Plus and DTS®-HD Master Audio with a bandwidth up to 225MHz.

2. Features

- Compliant with HDMI 1.3, HDCP 1.1 and DVI1.1 standards.
- Supports digital video formats in Deep Color Mode at up to 36 bits (12bits/color).
- New lossless compressed Digital audio (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio).
- Supports CAT-6 cables.
- Supports equalization and re-clocking of the incoming TMDS data before re-transmitting.
- Supports 1080p/8bit color up to 45 meters (90 meters using the HXC6R)
- Supports 1080p/12bit color up to 15 meters (30 meters using the HXC6R).
- Supports CEC bypass.
- Supports xvYCC Color Space.

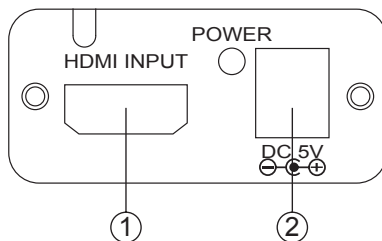
3. Package Contents

- Transmitter
- Receiver
- (2) 5V DC power supply adaptor
- Owner's Manual



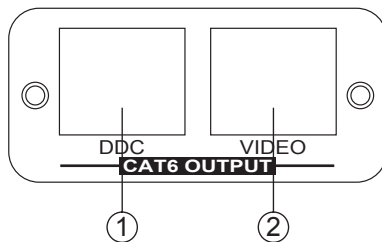
4. Transmitter Operation Controls and Functions

4.1 Front Panel



- 1 **HDMI INPUT:** Connect the HDMI input to the HDMI of your source equipment such as a DVD player or set-top-box.
- 2 **Power:** Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

4.2 Rear Panel

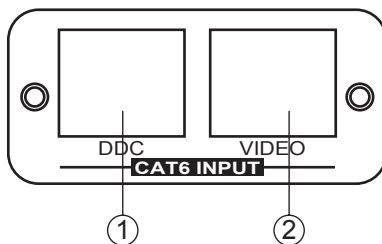


- 1 **DCC OUTPUT:** Connect the DDC output to the DDC input of the receiver unit using CAT5E or CAT6 cable.
- 2 **Video OUTPUT:** Connect the VIDEO output to the VIDEO input of the receiver unit using CAT5E or CAT6 cable.



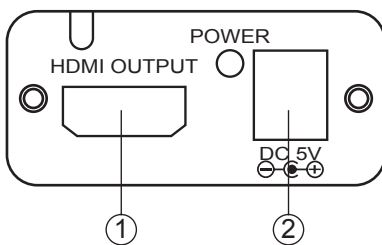
5. Receiver Operational Controls and Functions

5.1 Front Panel



- 1 **DDC INPUT:** Connect the DDC input to the DDC output of the transmitter unit using CAT5E or CAT6.
- 2 **VIDEO INPUT:** Connect the VIDEO input to the VIDEO output of the transmitter unit using CAT5E or CAT6.

5.2 Rear Panel



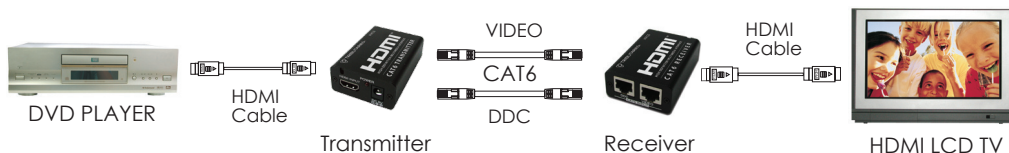
- 1 **HDMI OUTPUT:** Connect the HDMI output to the HDMI input of your display.
- 2 **POWER:** Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.



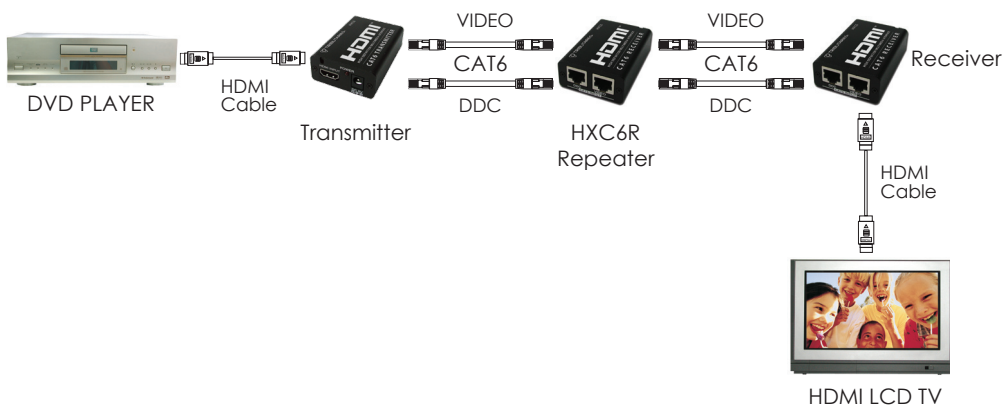
6. Specifications

1. Supported resolutions: HDMI - 480i/480p, 576i/576p, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
2. Transmitter Input: 1 HDMI female connector
3. Transmitter Output: 1 x CAT-6 input for Video, 1 x CAT6 input for DDC
4. Receiver Input: 1 x CAT-6 input for Video, 1 x CAT6 input for DDC
5. Receiver Output: 1 HDMI female port
6. Power: Input 5V/2.6A DC Power Supply (US/EU standards, CE/FCC/UL certified).
8. Operating Temperature: 32°F (0°C) ~ 104°F (40°C)
9. Dimensions: 2" (50mm) W x 2 62mm D x " (23mm) H
10. Weight: 6.8oz

7. Connection and Installation


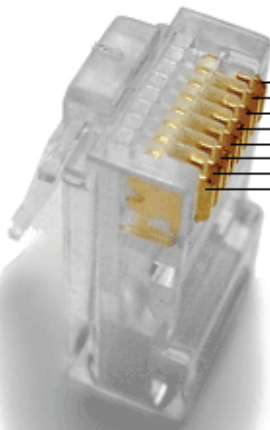









8. Connection and Installation with HXC6R





8. RJ45 Wiring Diagram

| Pin | T568B Pair | Wire | T568B Color | Pins on Plug Face (socket is reversed) |
|-----|------------|------|--|---|
| 1 | 2 | tip |  white/orange stripe |  Pin Position 8 7 6 5 4 3 2 1 |
| 2 | 2 | ring |  orange solid | |
| 3 | 3 | tip |  white/green stripe | |
| 4 | 1 | ring |  blue solid | |
| 5 | 1 | tip |  white/blue stripe | |
| 6 | 3 | ring |  green solid | |
| 7 | 4 | tip |  white/brown stripe | |
| 8 | 4 | ring |  brown solid | |



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